

INDUSTRIAL ELECTRONICS N3

(8080613)

QUESTION 3

APRIL

2021⁻⁸⁻ QUESTION 3

3.1 Transistors are not only used in amplifier switch circuits. They may also be used as regulators.



Draw a neat labelled circuit diagram of a transistor used as a constant-current regulator. (3)

3.2 The load line of a common emitter amplifier represents all the possible combinations of collector currents and collector-emitter voltages for amplification. The position of the bias point determines the amplification class.

Describe the following amplification classes.

3.2.1 Class B

3.2.2 Class C



(2 × 2)

(4)

3.3 Answer the following questions regarding photo transistors.

3.3.1 Draw a neat, labelled characteristic curve of a photo transistor.

(3)

N3 Industrial Electronics Past Papers

Sam Wilson



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Industrial Electronics Johann Kraft,1990 *N3 Industrial Electronics* ,2014 **N3 Industrial Electronics** John Dillon,2018 **Industrial Electronics N3 Student's Book** RBJ van Heerden,1997 Industrial Electronics ,2018

Industrial Electronics N3 Mo Arnold,2004 **industrial electronics N1** D. J. Van Deventer,2000 Industrial Electronics National Learning Corporation,2020-03-15 **Industrial Electronics CET Exam Study Guide** Sam Wilson,1989-12-01 Industrial Electronics N2 Deric Aspeling,1998 *N2 Industrial Electronics* M Stoltz,2013 *N4 Industrial Electronics* ,2014 **N4 Industrial Electronics** John Dillon,2016 N2 Industrial Electronics Botes,2014

Industrial Electronics for Technicians J. A. Sam Wilson,1990 **International Books in Print** ,1997 **Drum** ,2002-11 **Feedback Systems** Karl Johan Åström, Richard M. Murray,2021-02-02 The essential introduction to the principles and applications of feedback systems now fully revised and expanded This textbook covers the mathematics needed to model analyze and design feedback systems Now more user friendly than ever this revised and expanded edition of Feedback Systems is a one volume resource for students and researchers in mathematics and engineering It has applications across a range of disciplines that utilize feedback in physical biological information and economic systems Karl str m and Richard Murray use techniques from physics computer science and operations research to introduce control oriented modeling They begin with state space tools for analysis and design including stability of solutions Lyapunov functions reachability state feedback observability and estimators The matrix exponential plays a central role in the analysis of linear control systems allowing a concise development of many of the key concepts for this class of models str m and Murray then develop and explain tools in the frequency domain including transfer functions Nyquist analysis PID control frequency domain design and robustness Features a new chapter on design principles and tools illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self contained resource on control theory Foundations of Analog and Digital Electronic Circuits Anant Agarwal,Jeffrey Lang,2005-07-01 Unlike books currently on the market this book attempts to satisfy two goals combine circuits and electronics into a single unified treatment and establish a strong connection with the contemporary world of digital systems It will introduce a new way of looking not only at the treatment of circuits but also at the treatment of introductory coursework in engineering in general Using the concept of abstraction the book attempts to form a bridge between the world of physics and the world of large computer systems In particular it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems Computer systems are

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